globus online

Reliable File Transfer. No IT Required.

Data Movement Tutorial

2011 ALCF Winter Workshop

Computation Institute

Argonne
NATIONAL LABORATORY

globusonline.org

Globus Toolkit

Build the Grid

Components for building
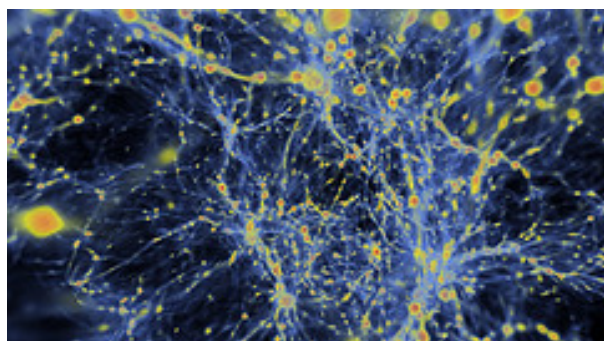custom grid solutions
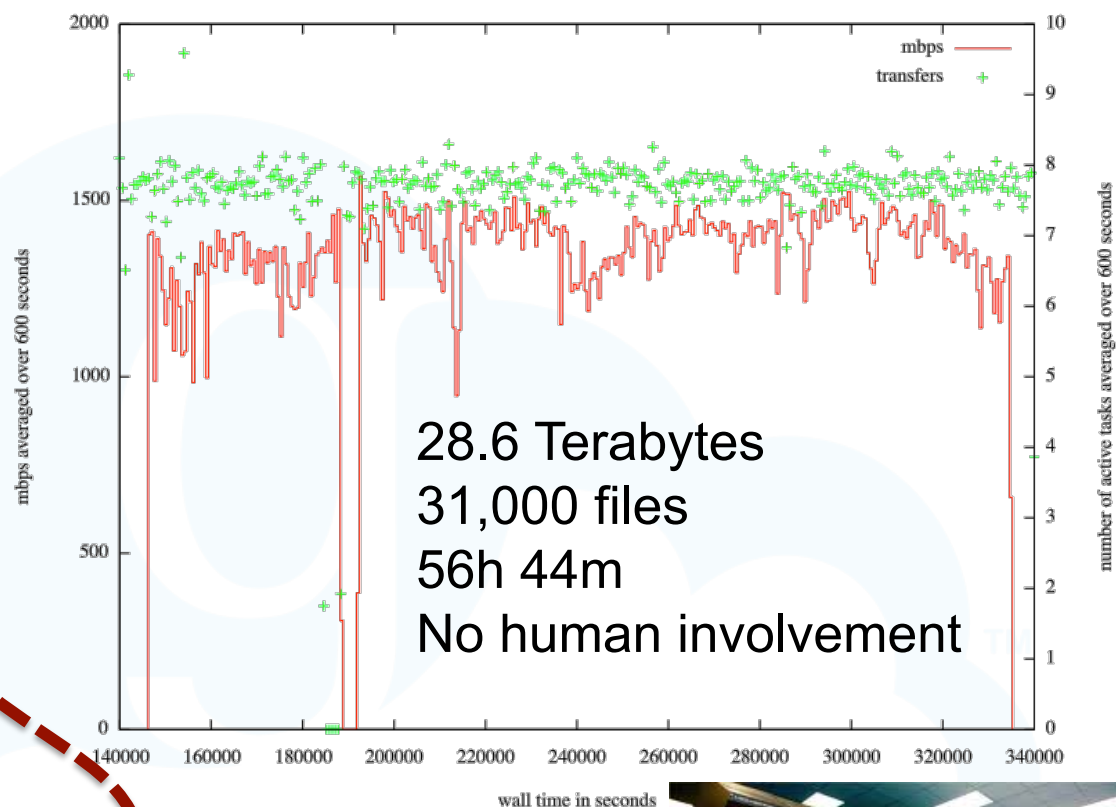
globustoolkit.org

Globus Online

Use the Grid

Cloud-hosted
file transfer service

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Globus Online In Action

28.6 Terabytes
31,000 files
56h 44m
No human involvement

Astrophysics simulation data
generated in Tennessee,
moved to Illinois for visualization
(Enzo, UCSD; Futures Lab, Argonne)

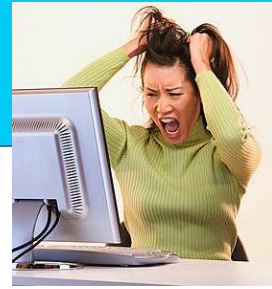globusonline.org

Works on and across GridFTP-based Grids/Sites

- Argonne LCF, APS,…
- BestGrid
- BIRN
- dGrid
- EGEE
- LHC Computing Grid
- LIGO Laboratory
- NERSC
- OLCF

- Open Science Grid
- SCEC
- TeraGrid
- TIGRE
- UC Grid
- ESG
- …
- Or install your own GridFTP server
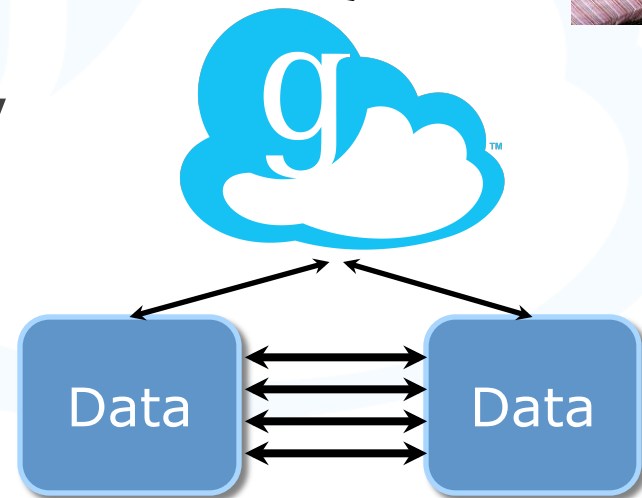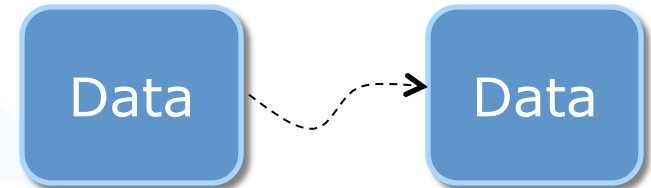
Who can benefit from Globus Online

- **Ad-hoc**: Non-programmers who need to move many files

- **Scripted**: Users who want to create automated workflows

- **System builders**: Don't want to re-engineer file transfer solutions
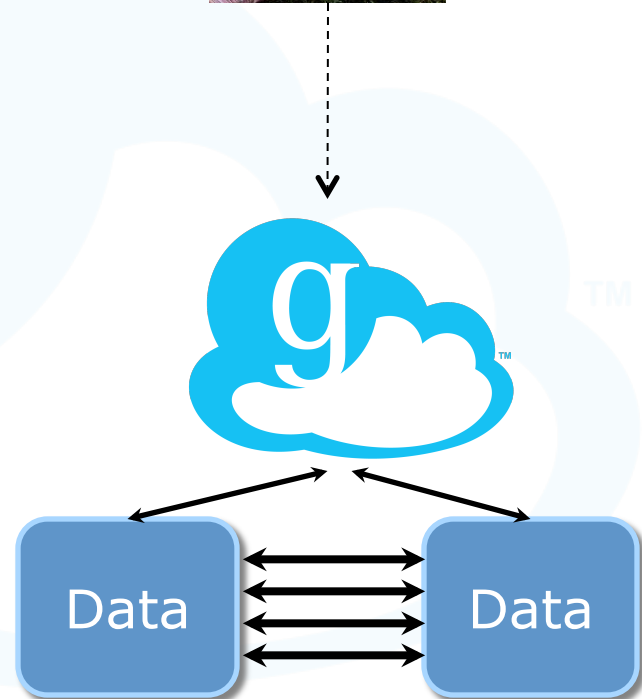
Benefits of Globus Online

- Easy "fire and forget" file transfers
- Automatic fault recovery
- High performance
- Simplify use of multiple security domains
- No client software installation
- New features automatically available
- Consolidated support and troubleshooting

The Globus Online user can …

- **Register** with Globus Online

- **Transfer** data between endpoints

- **Monitor** status of transfers

- **Customize** profile and endpoints

Agenda

- End-to-end demo by instructor
- Sign-up and try a simple transfer
- Hands-on exercises
- Advanced topics